IN THE SPECIFICATION:

Please insert the following paragraph into page 1 of the specification prior to Field of the Invention:

Cross-Reference to Related Applications

This application claims priority from PCT International Publication Number WO 2004/110500 filed August 1, 2003 and from EPO Patent Application Number 02078228.0 filed August 2, 2002.

Please replace the paragraph at page 11, lines 20-29 with the following paragraph:

1.1. Protected L-2-bromomethyl-PHE

On L-2-methyl-Phe the tributyl ester and N-Boc protection is introduced by conventional chemistry (N-Boc: $(BOC)_2O$, TEA, MeOH/tButOH, room temperature, 2 hours; Butylester: TMSL + tButOH or Li-O-t-butyl, room temperature, 24 hours). The protected compound is reacted in CCl_4 with Br-succinimide in the presence of benzoylperoxide as catalyst (radical halogenation) at ~~80EC~~ **80°C** during 1 hour. After precipitation of the ~~suuccinimide~~ **succinimide** the product is purified by column chromatography.

Please replace the paragraph at page 12, lines 5-13 with the following paragraph:

1.2 Protected L-2-Tosethyl-Phe

L-2-I-Phe is obtained by ~~Cu1+~~ **Cu^{1+}** assisted iodo for bromo exchange on commercial available L-2-Br-Phe in acidic reducing aqueous condition (gentisic acid and $SnSO_4$ as reducing agent for $CuSO_4$). Protection is introduced as in 1.1. The ethyltosyl is introduced in 3 steps (a: vinylbromide, $Pd(PPh_3)_4$,

1,4-dioxane, ~~100EC,~~ **100°C,** 1 hour; b: BH_3-THF complex, 4N NaOH, 30% H_2O_2, THF, ~~0EC,~~ **0°C,** 2 hours; c: TsCl, DMAP, CH_2Cl_2, room temperature, 2 hours).

Please replace the paragraphs at page 13, lines 1-14 with the following paragraphs:

EXAMPLE 2

Radiochemical synthesis of compounds of the invention

L-D-^{18}F-R-Phe analogues (R = methyl or ethyl) are prepared by nucleophilic exchange of ^{18}F on L-/D-2-TosR-Phe in an AcN/TBA/HCO_3^- or AcN/K_{222}/CO_3^{2-} mixture at ~~85EC~~ **85°C** during 5 minutes.

In short, $^{18}F^-$ is separated from the target water via an anion exchange column. Elution of the activity is achieved with tetra-n-butyl ammonium ~~hydrogene arbonate~~ **hydrogen carbonate** in H_2O. H_2O is discarded by azeotropic distillation after addition of acetonitrile. L-2-Tosethyl-N-trityl-phenylalane tert. butylester in dry acetonitrile is added to the $^{18}F^-$ recipient and heated during 3-5 minutes at ~~85EC~~ **85°C**. After the reaction the solvent is evaporated by means of pre-heated N_2.

Please replace the paragraph at page 14, lines 8-11 with the following paragraph:

A mean ~~Ki~~ K_i value of ~~76 :M~~ **76 μM** was obtained for L-2-F-methyl-phenylalanine. This value is almost comparable with the ~~Km~~ K_m value of ~~65 :M~~ **65 μM** obtained for the natural L-phenylalanine in the same conditions.